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**ANALYSIS OF AIR FIBER COUNTING DATA
WEST SHORE OFFICE BUILDING/HARRISBURGH, PA
Monokote S, April 26, 1983**

Mixer/Pump Operator

<u>Sample No.</u>	<u>Sample Time (Minutes)</u>	<u>Fiber (a) Concentration of Sample (Fiber/CC)</u>	<u>Fiber Exposure During Sample Time (Fiber-Min/CC)</u>
1	34	<0.02	0
2	15	<0.05	0
3	27	<0.03	0
4	20	<0.04	0
5	30	<0.03	0
6	18	<0.04	0
7	19	<0.04	0
8	18	0.09	1.62
9	16	<0.05	0
10	14	<0.06	0
11	20	<0.04	0
TOTAL	231	N/A	1.62

$$\text{TWA} = \frac{1.62 \text{ fiber-min/cc}}{231 \text{ min.}} \times \frac{6.6 \text{ hrs. of exposure}}{8.0 \text{ hr. work day}}$$

$$= 0.0058 \text{ f/cc}$$

Spray Nozzle Operator

<u>Sample No.</u>	<u>Sample Time (Minutes)</u>	<u>Fiber Concentration of Sample (Fiber/CC)</u>	<u>Fiber Exposure During Sample Time (Fiber-Min/CC)</u>
1	65	0.02	1.3
2	69	<0.01	0
3	135	<0.01	0
TOTAL	269	N/A	1.3

$$\text{TWA} = \frac{1.3 \text{ fiber-min/cc}}{269 \text{ min.}} \times \frac{6.6 \text{ hrs. of exposure}}{8.0 \text{ hr. work day}}$$

$$= 0.004 \text{ f/cc}$$

Overspray Clean-up

<u>Sample No.</u>	<u>Sample Time (Minutes)</u>	<u>Fiber Concentration of Sample (Fiber/CC)</u>	<u>Fiber Exposure During Sample Time (Fiber-Min/CC)</u>
1	117	<0.01	<0.01

$$\text{TWA} = \frac{<0.01 \text{ fiber-min/cc}}{117 \text{ min.}} \times \frac{6.6 \text{ hrs. of exposure}}{8.0 \text{ hr. work day}}$$

$$= <0.00007 \text{ f/cc}$$

(a) Fiber concentration is obtained by counting the fiber in 100 fields on the filters and dividing by the volume of air passing through the filters. The "less than" sign (<) indicates that no fibers were seen in the fields but that 1/2 of a fiber is assumed to calculate the number. The TWA is calculated on the actual count which, of course, is zero where no fibers are actually seen.

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